Copper Nickel 90/10 and 70/30 Flanges for Marine and Industrial Piping

The selection of material for marine piping involves a rigorous assessment of the corrosion characteristics and overall lifecycle cost. Copper Nickel 90/10 Flanges have become a standard for marine and offshore piping systems owing to their strength, corrosion resistance, and efficiency. Alloy UNS C70600, usually as per ASTM B151 and ASME SB151 standards, is a typical material for Class 150 to 600 ratings flanges and is manufactured in slip on, weld neck, and blind types. The dimensions usually comply with ASME B16.5 or B16.47, covering the range of sizes from ½ inch to 24 inch, while the product still resists seawater erosion and biofouling.

These flanges are most commonly used in desalination, firewater, and heat exchanger pipework situations where the pressure and temperature conditions are moderate. For instance, Dammam and Jubail trading hubs, project contractors request compliant documentation, mill test certificates, and party inspection approvals before ordering. Through the website pipingmaterial. sa, verified suppliers are connected with buyers looking for traceable stock and lead times rather than unpredictable spot purchases.

In order to achieve higher strength and better resistance to impingement attack, Copper Nickel 70/30 Flanges are presented as one of the options in marine environments. These flanges made from UNS C71500 according to ASTM B151 or forged to ASTM B564 arecompatible with condenser systems, shipbuilding, and offshore platforms, which are subjected to high flow velocities. The pressure classes generally go from 150 to 900, and the

flange facings may be either raised face or ring type joint, depending on design codes.

Throughout projects in Riyadh, sourcing teams perform comparisons between chemical composition limits, mechanical properties, and heat treatment records to guarantee the lasting performance of the products. Verified offers can be checked on pipingmaterial. sa to find genuine buyers and reliable stockists for the given applications.